UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,535	07/27/2000 Donald F. Hooper		10559-137002 / P7876X	1214
20985 FISH & RICHA	7590 04/03/200 ARDSON, PC	EXAMINER		
P.O. BOX 1022		ENG, DAVID Y		
WIINNEAPOLI	S, MN 55440-1022		ART UNIT	PAPER NUMBER
			2455	
			NOTIFICATION DATE	DELIVERY MODE
			04/03/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

Office Action Summary		А	Application No.		Applicant(s)				
		0	09/626,535		HOOPER ET AL.				
		E	xaminer		Art Unit				
			AVID Y. ENG		2455				
Period fo	- The MAILING DATE of this commun r Reply	ication appeal	rs on the cove	r sheet with the c	orrespondence ad	ldress			
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MISSIONS of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply sply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a nunication. atutory period will a will, by statute, cau	E OF THIS CO a). In no event, how apply and will expire use the application to	OMMUNICATION ever, may a reply be tim SIX (6) MONTHS from to become ABANDONEI	I. lely filed the mailing date of this c (35 U.S.C. § 133).				
Status									
1)	Responsive to communication(s) file	ed on 16 Dece	ember 2008						
· · · · · · · · · · · · · · · · · · ·			ction is non-fin	al					
′=		<i>'</i> —			secution as to the	e merits is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
	on of Claims	·		,					
-		in the applies	ation						
· —	Claim(s) <u>7-17 and 21</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.								
		ic williarawii	nom consider	ation.					
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>7-17 and 21</u> is/are rejected.								
· ·	Claim(s) <u>7-17 and 21</u> is/are rejected Claim(s) is/are objected to.	•							
•	Claim(s) is/are objected to: Claim(s) are subject to restric	tion and/or el	lection require	ement					
0)[	Claim(s) are subject to restric	dion and/or er	iection require	anient.					
Application	on Papers								
9) 🗆 -	The specification is objected to by the	e Examiner.							
10) 🔲 -	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any object	ction to the dra	wing(s) be held	in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Pation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	4)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te				

### **DETAILED ACTION**

In response to a restriction requirement mailed on 11/13/2008, Applicants elected, without traverse, Group II, claims 7-17 and 21 for examination. Claims 1, 3-6 and 18-20 are therefore withdrawn from consideration. The active claims are 7-17 and 21.

### **Specification**

The Examiner is unable to find the support of that the threads are time sharing (claims 8 and 9) or not time sharing (claims 10 and 11). Applicants are requested to identify the support of claims 8-11 and 14 in the specification.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims13, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Scope of limitation of claim 13 is not clear. There is no antecedent basis for the "the same code".

Claims 16 and 17 are not understood. It is not seen how the steps as recited in claims 16 and 17 are related to the processing steps of their parent independent claim 15.

Application/Control Number: 09/626,535 Page 3

Art Unit: 2455

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 7-17 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahle et al (USP 6,212,542) in view of Belkin (USP 6,604,125).

Kahle teaches:

## Claims 7, 12, 15

A method of processing a network packet (Belkin, the secondary reference, teaches processing packet) received over a network (Belkin teaches packets received over a network) at a processor having multiple programmable multi-threaded engines integrated within the processor (Kahle, the primary reference, teaches a multiscalar processor having multiple programmable multi-thread engines, see at least Figure 4 and the abstract and the description of the multiscalar throughout the patent of Kahle), the method comprising:

processing a first portion of the network packet (processing of data by the multiscalar processor of Kahle) received at a port (the port in Kahle at where data is received to be processed) of a media access control device (label of the port, no processing of media is recited, not patentably distinct) using a first thread (threads are scheduled by the thread scheduler 130 in Figure 4) provided by any of the multiple programmable multi-threaded engines (PEs 132-138 in Figure 4 of Kahle) integrated within the processor to move the first portion of the network packet to a first location in a

memory coupled to the processor (data in Kahle is moved in and out of memories within the multiscalar processor 100 shown in Figure 4); and

simultaneously (threads are simultaneously scheduled such that the PEs in Kahle are simultaneously operative) processing a second portion of the network packet (processing of data by the multiscalar processor of Kahle) using a second thread (threads are scheduled by the thread scheduler 130 in Figure 4) provided by any of the multiple programmable multi-threaded engines (PEs 132-138 in Figure 4 of Kahle) integrated within the processor to move the second portion of the network packet to a second location in the memory (data in Kahle is moved in and out of memories within the multiscalar processor 100 shown in Figure 4).

Scope of the independent claims:

There is nothing recited in the claims for processing media packets or communication using a network. The claims merely recite storing portions of a data called packet received from a port of a device called media access control device to memory locations using a thread provided by an engine of a multiscalar processor. Certainly, the threads provided by the PEs of Kahle's multiscalar processor are capable of storing data received from a port to a memory location. The only difference is that it is not clear whether or not Kahle's multiscalar is operated in a network environment. The data and the receiving port in Kahle therefore are not labeled respectively as packet and port of a media access control device. Using multiscalar processor for processing packets in a network communication environment is well known in the art. Belkin teaches such a processor. From the teaching of Belkin, it would have been obvious to a

Application/Control Number: 09/626,535 Page 5

Art Unit: 2455

person of ordinary skill in the art use a multiscalar processor having threads provided by the multithreaded engines for processing packets in a network communication environment such that multiple packets can be processed simultaneously.

## Claims 8, 9, 10, 11, 14, 13

With respect to claims 8-11 and 14, the wherein-statements merely consist of non-functional descriptive materials. The wherein-statements fail to recite steps to render the processing steps of independent claims to process packets in a timeshare or non-timeshare manner. The wherein-statements are therefore descriptive in natures and have no functional value.

Claim 13 is rejected for the same reasons as set forth above. The whereinstatements merely consist of non-functional descriptive materials.

### Claims 16, 17

It is noted that the processing steps as recited in parent claim 15 do not require interrupt handling. Interrupt handling is well known in programming. If interrupt handling is required, it would have been obvious to a person of ordinary skill in the art to provide instructions for doing that.

#### Claim 21

ALU, control store, counter and registers are basic components of a processing element.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID Y. ENG whose telephone number is 571-272-3984. The examiner can normally be reached on M-F from 8AM to 3PM.

Application/Control Number: 09/626,535 Page 6

Art Unit: 2455

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SALEH NAJJAR, can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/DAVID Y. ENG/ Primary Examiner, Art Unit 2455